## WHAT IS CLAIMED IS:

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- A belt conveying mechanism for an ink-jet recording apparatus comprising;
- 5 a plurality of rollers;
  - a conveyor belt that conveys a record medium thereon, the conveyor belt spanned the plurality of rollers;
  - an ink holding portion that holds ink, the ink holding portion arranged on a surface of the conveyor belt; and
  - an ink removing member that removes the ink held in the ink holding portion.
  - The belt conveying mechanism for an ink-jet recording apparatus according to claim 1,
  - further comprising a recessed portion formed on the surface of the conveyor belt; and wherein

the ink holding portion is arranged within the recessed portion to hold ink within the recessed portion.

- 3. The belt conveying mechanism for an ink-jet recording apparatus according to claim 1, wherein the ink holding portion includes a plurality of protrusions formed on the surface of the conveyor belt.
- The belt conveying mechanism for an ink-jet

recording apparatus according to claim 3, wherein the plurality of protrusions protrude perpendicularly to the surface of the convevor belt.

- 5. The belt conveying mechanism for an ink-jet recording apparatus according to claim 3, wherein the plurality of protrusions extend in parallel with each other perpendicularly to a running direction of the conveyor belt.
- 10 6. The belt conveying mechanism for an ink-jet recording apparatus according to claim 3, wherein each of the plurality of protrusions has an overhanging portion thereof inclining to a downstream of a running direction of the conveyor belt.

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- 7. The belt conveying mechanism for an ink-jet recording apparatus according to claim3, wherein an angle between the surface of the conveyor belt and a face of each protrusion on an upstream side of a running direction of the conveyor belt is larger than an angle between the surface of the conveyor belt and a face of the protrusion on a downstream side of the running direction of the conveyor belt.
- 8. The belt conveying mechanism for an ink-jet recording apparatus according to claim3, wherein

the plurality of protrusions are formed in a recessed portion formed on the surface of the conveyor belt, and positioned below a conveying surface of the conveyor belt on which the record medium is conveved.

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- The belt conveying mechanism for an ink-jet recording apparatus according to claim3, wherein the ink removing member is made of felt.
- 10 10. The belt conveying mechanism for an ink-jet recording apparatus according to claim 9, wherein the ink removing member has the same length as the recessed portion in a running direction of the conveyor belt.
- 15 11. The belt conveying mechanism for an ink-jet recording apparatus according to claim 1, wherein the ink holding portion includes an absorber arranged on the surface of the conveyor belt.
- 20 12. The belt conveying mechanism for an ink-jet recording apparatus according to claim 11, wherein, when the ink holding portion is in a position corresponding to either of the plurality of rollers, the ink removing member is brought into contact with the ink holding portion to remove ink.

- 13. The belt conveying mechanism for an ink-jet recording apparatus according to claim 11, wherein the ink removing member is made of metallic material.
- 5 14. The belt conveying mechanism for an ink-jet recording apparatus according to claim 11, wherein the ink removing member is a cylindrical roller.
- 15. The belt conveying mechanism for an ink-jet

  10 recording apparatus according to claim 1, wherein the ink
  removing member can selectively take a position for being in
  contact with the ink holding portion and a position for being
  out of contact with the ink holding portion.
  - 16. The belt conveying mechanism for an ink-jet recording apparatus, comprising:
    - a plurality of rollers;

- a conveyor belt that conveys a record medium thereon, the conveyor belt spanned the plurality of rollers;
- an ink holding portion that holds ink, the ink holding portion arranged on a surface of the conveyor belt;
  - an ink removing member that removes the ink held in the ink holding portion;
- a sensor that detects a position of the ink holding portion; and

a drive mechanism that movs the ink removing member into contact or out of contact with the ink holding portion, on the basis of a position of the ink holding portion and a running speed of the conveyor belt detected by the sensor.

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17. An ink-jet recording apparatus, comprising: the belt conveying mechanism according to claim 1; and an ink-jet head that ejects ink onto the record medium being conveyed by the conveyor belt of the belt conveyor.